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## SECTION 1. Identification of the substance/mixture and of the company/undertaking

### 1.1. Product identifier

| Code: | F_18 |
| :--- | :--- |
| Product name | Lemon Scented DISHWASHING DETERGENT |
| UFI : | NJ10-10VD-Q00D-KVY1 |

1.2. Relevant identified uses of the substance or mixture and uses advised against

| Identified Uses | Industrial | Professional |
| :--- | :---: | :---: |
| dishwashing detergent | - | $\checkmark$ |
| Uses Advised Against |  | Consumer |

Do not use for uses other than those indicated
1.3. Details of the supplier of the safety data sheet

Name
Full address
District and Country

NEW FADOR S.r.I. via Mario Calderara, 31 25018 Montichiari (BS) Italia

Tel. +39 030961243
www.newfador.it
info@newfador.it

NEW FADOR S.r.I.
+39 030961243
(08.30-17.30)

## SECTION 2. Hazards identification

### 2.1. Classification of the substance or mixture

The product is classified as hazardous pursuant to the provisions set forth in (EC) Regulation 1272/2008 (CLP) (and subsequent amendments and supplements). The product thus requires a safety datasheet that complies with the provisions of (EU) Regulation 2020/878.
Any additional information concerning the risks for health and/or the environment are given in sections 11 and 12 of this sheet.

Hazard classification and indication:
Eye irritation, category $2 \quad \mathrm{H} 319$
H319 Causes serious eye irritation.
Classified according to ICE-PH-15/0338 report

### 2.2. Label elements

Hazard labelling pursuant to EC Regulation 1272/2008 (CLP) and subsequent amendments and supplements.

Hazard pictograms:

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?

## Signal words:

Warning

Hazard statements:

H319 Causes serious eye irritation.

Precautionary statements:

| P102 | Keep out of reach of children. |
| :--- | :--- |
| P305+P351+P338 | IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue |
|  | rinsing. |
| P280 | Wear protective gloves / protective clothing / eye protection / face protection. |
| P337+P313 | If eye irritation persists: Get medical advice / attention. |
| P101 | If medical advice is needed, have product container or label at hand. |

Ingredients according to Regulation (EC) No. 648/2004

Less than 5\% anionic surfactants, amphoteric surfactants
perfumes, Limonene

Preservation agents: GLUTARAL, BENZISOTHIAZOLINONE, 2-BROMO-2-NITROPROPANE-1,3-DIOL

### 2.3. Other hazards

On the basis of available data, the product does not contain any PBT or vPvB in percentage $\geq$ than $0,1 \%$.

The product does not contain substances with endocrine disrupting properties in concentration $>=0.1 \%$.

## SECTION 3. Composition/information on ingredients

### 3.1. Substances

Information not relevant

### 3.2. Mixtures

Contains:


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REACH Reg. 01-2119489428-22
ALCOHOLS, C12-14,
ETHOXYLATED, SULFATES,
SODIUM SALTS
CAS 68891-38-3
$1,5 \leq x<2 \quad$ Eye Dam. 1 H318,
Skin Irrit. 2 H315,
Aquatic Chronic 3 H 412
EC 500-234-8
Eye Dam. 1 H318: $\geq 10 \%$,
Eye Irrit. 2 H319: $\geq 5 \%$
INDEX -
REACH Reg. 01-2119488639-16
2-BROMO-2-NITROPROPAN-1,3DIOL
CAS 52-51-7
Acute Tox. 4 H302, Acute Tox. 4 H312, Eye Dam. 1 H318, Skin Irrit. 2 H315, STOT SE 3 H335, Aquatic Acute $1 \mathrm{H} 400 \mathrm{M}=10$, Aquatic Chronic 2 H 411 STA Oral: $500 \mathrm{mg} / \mathrm{kg}$, STA Dermal: $1100 \mathrm{mg} / \mathrm{kg}$
INDEX 603-085-00-8
REACH Reg. 01-2119980938-15

The full wording of hazard $(\mathrm{H})$ phrases is given in section 16 of the sheet.

## SECTION 4. First aid measures

### 4.1. Description of first aid measures

EYES: Remove contact lenses, if present. Wash immediately with plenty of water for at least 15 minutes, opening the eyelids fully. If problem persists, seek medical advice.
SKIN: Remove contaminated clothing. Rinse skin with a shower immediately. Wash contaminated clothing before using it again.
INHALATION: Remove to open air. If the subject stops breathing, administer artificial respiration. Get medical advice/attention immediately. INGESTION: Get medical advice/attention immediately. Do not induce vomiting. Do not administer anything not explicitly authorised by a doctor.
4.2. Most important symptoms and effects, both acute and delayed

Specific information on symptoms and effects caused by the product are unknown.
4.3. Indication of any immediate medical attention and special treatment needed

Information not available

## SECTION 5. Firefighting measures

### 5.1. Extinguishing media

SUITABLE EXTINGUISHING EQUIPMENT
The extinguishing equipment should be of the conventional kind: carbon dioxide, foam, powder and water spray.
UNSUITABLE EXTINGUISHING EQUIPMENT
None in particular.

### 5.2. Special hazards arising from the substance or mixture

HAZARDS CAUSED BY EXPOSURE IN THE EVENT OF FIRE

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Do not breathe combustion products.

### 5.3. Advice for firefighters

GENERAL INFORMATION
Use jets of water to cool the containers to prevent product decomposition and the development of substances potentially hazardous for health. Always wear full fire prevention gear. Collect extinguishing water to prevent it from draining into the sewer system. Dispose of contaminated water used for extinction and the remains of the fire according to applicable regulations.
SPECIAL PROTECTIVE EQUIPMENT FOR FIRE-FIGHTERS
Normal firefighting clothing i.e. fire kit (BS EN 469), gloves (BS EN 659) and boots (HO specification A29 and A30) in combination with self-contained open circuit positive pressure compressed air breathing apparatus (BS EN 137).

## SECTION 6. Accidental release measures

### 6.1. Personal precautions, protective equipment and emergency procedures

Block the leakage if there is no hazard.
Wear suitable protective equipment (including personal protective equipment referred to under Section 8 of the safety data sheet) to prevent any contamination of skin, eyes and personal clothing. These indications apply for both processing staff and those involved in emergency procedures.

### 6.2. Environmental precautions

The product must not penetrate into the sewer system or come into contact with surface water or ground water.

### 6.3. Methods and material for containment and cleaning up

Collect the leaked product into a suitable container. Evaluate the compatibility of the container to be used, by checking section 10 . Absorb the remainder with inert absorbent material.
Make sure the leakage site is well aired. Contaminated material should be disposed of in compliance with the provisions set forth in point 13.

### 6.4. Reference to other sections

Any information on personal protection and disposal is given in sections 8 and 13 .

## SECTION 7. Handling and storage

### 7.1. Precautions for safe handling

Before handling the product, consult all the other sections of this material safety data sheet. Avoid leakage of the product into the environment. Do not eat, drink or smoke during use. Remove any contaminated clothes and personal protective equipment before entering places in which people eat.

### 7.2. Conditions for safe storage, including any incompatibilities

Store only in the original container. Store the containers sealed, in a well-ventilated place, away from direct sunlight. Keep containers away from any incompatible materials, see section 10 for details.
7.3. Specific end use(s)

Information not available

## SECTION 8. Exposure controls/personal protection

### 8.1. Control parameters

BENZENESULFONIC ACID, C10-13-ALKYL DERIVS., SODIUM SALTS

## MATERIAL SAFETY DATA SHEET

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| Predicted no-effect concentration - PNEC |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Normal value in fresh water |  | 0,268 | mg/l |  |  |  |
| Normal value in marine water |  | 0,027 | mg/l |  |  |  |
| Normal value for fresh water sediment |  | 8,1 | $\mathrm{mg} / \mathrm{kg}$ |  |  |  |
| Normal value for marine water sediment |  | 6,8 | mg/kg |  |  |  |
| Normal value for water, intermittent release |  | 0,017 | mg/l |  |  |  |
| Normal value of STP microorganisms |  | 3,43 | mg/l |  |  |  |
| Normal value for the terrestrial compartment |  | 35 | $\mathrm{mg} / \mathrm{kg}$ |  |  |  |
| Health - Derived no-effect level - DNEL / DMEL <br> Effects on |  |  |  |  |  |  |
| Route of exposure Acute local Acute systemic | Chronic local | Chronic systemic | Acute local | Acute systemic | Chronic local | Chronic systemic |
| Oral |  | $\begin{aligned} & 0,425 \mathrm{mg} / \mathrm{kg} \\ & \mathrm{bw} / \mathrm{d} \end{aligned}$ |  |  |  |  |
| Inhalation | 1,5 | $1,5 \mathrm{mg} / \mathrm{m} 3$ |  |  | 6 | $6 \mathrm{mg} / \mathrm{m} 3$ |
| Skin |  | $\begin{aligned} & \hline 42,5 \mathrm{mg} / \mathrm{kg} \\ & \mathrm{bw} / \mathrm{d} \end{aligned}$ |  |  |  | $\begin{aligned} & 85 \mathrm{mg} / \mathrm{kg} \\ & \mathrm{bw} / \mathrm{d} \end{aligned}$ |

## ALCOHOLS, C12-14, ETHOXYLATED, SULFATES, SODIUM SALTS

Predicted no-effect concentration - PNEC

| Normal value in fresh water | 0,24 | mg/l |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Normal value in marine water | 0,024 | mg/l |  |  |  |
| Normal value for fresh water sediment | 0,917 | $\mathrm{mg} / \mathrm{kg}$ |  |  |  |
| Normal value for marine water sediment | 0,092 | $\mathrm{mg} / \mathrm{kg}$ |  |  |  |
| Normal value for water, intermittent release | 0,071 | mg/l |  |  |  |
| Normal value of STP microorganisms | 10 | g/l |  |  |  |
| Normal value for the terrestrial compartment | 7,5 | mg/kg |  |  |  |
| Health - Derived no-effect level - DNEL / DMEL Effects on consumers |  | Effects on workers |  |  |  |
| Route of exposure Acute local Acute systemic Chronic local | Chronic systemic | Acute local | Acute systemic | Chronic local | Chronic systemic |
| Oral | $\begin{aligned} & 15 \mathrm{mg} / \mathrm{kg} \\ & \mathrm{bw} / \mathrm{d} \\ & \hline \end{aligned}$ |  |  |  |  |
| Inhalation | $52 \mathrm{mg} / \mathrm{m} 3$ |  |  |  | $175 \mathrm{mg} / \mathrm{m} 3$ |
| Skin | $\begin{aligned} & 1650 \mathrm{mg} / \mathrm{kg} \\ & \mathrm{bw} / \mathrm{d} \end{aligned}$ |  |  |  | $\begin{aligned} & 2750 \mathrm{mg} / \mathrm{kg} \\ & \mathrm{bw} / \mathrm{d} \end{aligned}$ |

2-BROMO-2-NITROPROPAN-1,3-DIOL
Predicted no-effect concentration - PNEC

| Normal value in fresh water | 0,01 | $\mathrm{mg} / \mathrm{l}$ |  |
| :--- | :--- | :--- | :--- |
| Normal value in marine water | 0,001 | $\mathrm{mg} / \mathrm{l}$ |  |
| Normal value for fresh water sediment | 0,041 | $\mathrm{mg} / \mathrm{kg}$ |  |
| Normal value for marine water sediment | 0,003 | $\mathrm{mg} / \mathrm{kg}$ |  |
| Normal value for water, intermittent release | 0,003 | $\mathrm{mg} / \mathrm{l}$ |  |
| Normal value of STP microorganisms | 0,43 | $\mathrm{mg} / \mathrm{l}$ |  |
| Normal value for the terrestrial compartment | 0,5 | $\mathrm{mg} / \mathrm{kg}$ |  |
| Health - Derived no-effect level - DNEL / DMEL |  |  |  |
| Effects on <br> consumers | Acute local | Acute systemic | Chronic local |
| Route of exposure | Chronic | Acute local | Acute |


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|  |  |  |  | systemic |  | systemic |  | systemic |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Oral |  | 1,1 mg/kg bw/d |  | $\begin{aligned} & \text { 0,35 mg/kg } \\ & \text { bw/d } \end{aligned}$ |  |  |  |  |
| Inhalation | 1,3 mg/m3 | $3,7 \mathrm{mg} / \mathrm{m} 3$ | 1,3 mg/m3 | $1,2 \mathrm{mg} / \mathrm{m} 3$ | 4,2 mg/m3 | $12,3 \mathrm{mg} / \mathrm{m} 3$ | 4,2 mg/m3 | $4,1 \mathrm{mg} / \mathrm{m} 3$ |
| Skin | 0,008 mg/cm2 | 4,2 mg/kg bw/d | $0,008 \mathrm{mg} / \mathrm{cm} 2$ | $1,4 \mathrm{mg} / \mathrm{kg}$ bw/d | 0,013 $\mathrm{mg} / \mathrm{cm} 2$ | $7 \mathrm{mg} / \mathrm{kg} \mathrm{bw} / \mathrm{d}$ | $\begin{aligned} & 0,013 \\ & \mathrm{mg} / \mathrm{cm} 2 \end{aligned}$ | $2,3 \mathrm{mg} / \mathrm{kg}$ bw/d |

VND = hazard identified but no DNEL/PNEC available ; NEA = no exposure expected ; NPI = no hazard identified.

### 8.2. Exposure controls

As the use of adequate technical equipment must always take priority over personal protective equipment, make sure that the workplace is well aired through effective local aspiration.
When choosing personal protective equipment, ask your chemical substance supplier for advice.
Personal protective equipment must be CE marked, showing that it complies with applicable standards.
Provide an emergency shower with face and eye wash station.

## HAND PROTECTION

Protect hands with category III work gloves (see standard EN 374).
The following should be considered when choosing work glove material: compatibility, degradation, failure time and permeability.
The work gloves' resistance to chemical agents should be checked before use, as it can be unpredictable. The gloves' wear time depends on the duration and type of use.

## SKIN PROTECTION

Wear category I professional long-sleeved overalls and safety footwear (see Regulation 2016/425 and standard EN ISO 20344). Wash body with soap and water after removing protective clothing.

## EYE PROTECTION

Wear airtight protective goggles (see standard EN 166).

## RESPIRATORY PROTECTION

If the threshold value (e.g. TLV-TWA) is exceeded for the substance or one of the substances present in the product, use a mask with a type A filter whose class (1, 2 or 3) must be chosen according to the limit of use concentration. (see standard EN 14387). In the presence of gases or vapours of various kinds and/or gases or vapours containing particulate (aerosol sprays, fumes, mists, etc.) combined filters are required.
Respiratory protection devices must be used if the technical measures adopted are not suitable for restricting the worker's exposure to the threshold values considered. The protection provided by masks is in any case limited.
If the substance considered is odourless or its olfactory threshold is higher than the corresponding TLV-TWA and in the case of an emergency, wear open-circuit compressed air breathing apparatus (in compliance with standard EN 137) or external air-intake breathing apparatus (in compliance with standard EN 138). For a correct choice of respiratory protection device, see standard EN 529.

ENVIRONMENTAL EXPOSURE CONTROLS
The emissions generated by manufacturing processes, including those generated by ventilation equipment, should be checked to ensure compliance with environmental standards.

## SECTION 9. Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

## Properties

Appearance
Colour
Odour
Melting point / freezing point
Initial boiling point
Flammability
Lower explosive limit
Upper explosive limit

## Value

liquid
green
characteristic
Not available
Not available
Not available
Not available
Not available

Conforms to Reg. (EU) 878/2020

Flash point
Auto-ignition temperature
Decomposition temperature
pH
Kinematic viscosity
Dynamic viscosity
Solubility
Partition coefficient: n-octanol/water
Vapour pressure
Density and/or relative density
Relative vapour density
Particle characteristics

Not available
Not available
Not available
Not available
Not available
$450 \pm 100 \mathrm{mPa} * \mathrm{~s}\left(25^{\circ} \mathrm{C}\right)$
soluble in water
Not available
Not available
1,008
Not available
Not applicable

### 9.2. Other information

9.2.1. Information with regard to physical hazard classes

Information not available
9.2.2. Other safety characteristics

Information not available
Explosive properties not classified as explosive, contains no explosive substances according to CLP Art. (14 (2))
Oxidising properties the product is not an oxidizing substance

## SECTION 10. Stability and reactivity

### 10.1. Reactivity

There are no particular risks of reaction with other substances in normal conditions of use.

2-BROMO-2-NITROPROPAN-1,3-DIOL
Decomposes on contact with: water, metals, strong bases.

### 10.2. Chemical stability

The product is stable in normal conditions of use and storage.

### 10.3. Possibility of hazardous reactions

No hazardous reactions are foreseeable in normal conditions of use and storage.

### 10.4. Conditions to avoid

None in particular. However the usual precautions used for chemical products should be respected.

2-BROMO-2-NITROPROPAN-1,3-DIOL
Avoid exposure to: light, UV rays, moisture.

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### 10.5. Incompatible materials

Information not available

### 10.6. Hazardous decomposition products

2-BROMO-2-NITROPROPAN-1,3-DIOL
May develop: nitric oxide, carbon oxides, hydrobromic acid.

## SECTION 11. Toxicological information

### 11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

Metabolism, toxicokinetics, mechanism of action and other information
Information not available
Information on likely routes of exposure
Information not available
Delayed and immediate effects as well as chronic effects from short and long-term exposure
Information not available
Interactive effects
Information not available

## ACUTE TOXICITY

| ATE (Inhalation) of the mixture: | Not classified (no significant component) |
| :--- | :--- |
| ATE (Oral) of the mixture: | $>2000 \mathrm{mg} / \mathrm{kg}$ |
| ATE (Dermal) of the mixture: | Not classified (no significant component) |

BENZENESULFONIC ACID, C10-13-ALKYL DERIVS., SODIUM SALTS

## LD50 (Oral):

LD50 (Dermal)
$1080 \mathrm{mg} / \mathrm{kg}$ rat
> 2000 mg/kg ra

ALCOHOLS, C12-14, ETHOXYLATED, SULFATES, SODIUM SALTS

LD50 (Oral):
LD50 (Dermal):

2-BROMO-2-NITROPROPAN-1,3-DIOL
LD50 (Oral):
STA (Oral):

LD50 (Dermal):
STA (Dermal):

LC50 (Inhalation mists/powders):
$>2000 \mathrm{mg} / \mathrm{kg}$ rat
> 2000 mg/kg rat

254 mg/kg rat
$500 \mathrm{mg} / \mathrm{kg}$ estimate from table 3.1.2 of Annex I of the CLP
(figure used for calculation of the acute toxicity estimate of the mixture)
64 mg/kg rat
$1100 \mathrm{mg} / \mathrm{kg}$ estimate from table 3.1.2 of Annex I of the CLP
(figure used for calculation of the acute toxicity estimate of the mixture)
$0,588 \mathrm{mg} / / / 4 \mathrm{~h}$ rat

SKIN CORROSION / IRRITATION
Does not meet the classification criteria for this hazard class
SERIOUS EYE DAMAGE / IRRITATION
Causes serious eye irritation
RESPIRATORY OR SKIN SENSITISATION
Does not meet the classification criteria for this hazard class GERM CELL MUTAGENICITY
Does not meet the classification criteria for this hazard class CARCINOGENICITY
Does not meet the classification criteria for this hazard class REPRODUCTIVE TOXICITY
Does not meet the classification criteria for this hazard class STOT - SINGLE EXPOSURE
Does not meet the classification criteria for this hazard class STOT - REPEATED EXPOSURE
Does not meet the classification criteria for this hazard class

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ASPIRATION HAZARD
Does not meet the classification criteria for this hazard class

### 11.2. Information on other hazards

Based on the available data, the product does not contain substances listed in the main European lists of potential or suspected endocrine disruptors with human health effects under evaluation.

## SECTION 12. Ecological information

### 12.1. Toxicity

2-BROMO-2-NITROPROPAN-1,3-DIOL
LC50 - for Fish $20 \mathrm{mg} / / 96 \mathrm{~h}$ Oncorhynchus mykiss
EC50 - for Crustacea $\quad 1,6 \mathrm{mg} / / / 48 \mathrm{~h}$ Daphnia magna
EC50 - for Algae / Aquatic Plants
Chronic NOEC for Algae / Aquatic Plants
$0,25 \mathrm{mg} / / / 72 \mathrm{~h}$
$0,08 \mathrm{mg} / \mathrm{l}$

BENZENESULFONIC ACID, C10-13-ALKYL
DERIVS., SODIUM SALTS
LC50 - for Fish
$1,67 \mathrm{mg} / / / 96 \mathrm{~h}$
EC50 - for Crustacea
EC50 - for Algae / Aquatic Plants
Chronic NOEC for Fish
Chronic NOEC for Crustacea
Chronic NOEC for Algae / Aquatic Plants
$2,9 \mathrm{mg} / / 48 \mathrm{~h}$
$0,91 \mathrm{mg} / / / 72 \mathrm{~h}$
$0,23 \mathrm{mg} / \mathrm{l} 72 \mathrm{~d}$
$0,5 \mathrm{mg} / \mathrm{l} 7 \mathrm{~d}$
$0,5 \mathrm{mg} / \mathrm{l} 96 \mathrm{~h}$

ALCOHOLS, C12-14, ETHOXYLATED,
SULFATES, SODIUM SALTS
LC50 - for Fish $\quad>1 \mathrm{mg} / / / 96 \mathrm{~h}$ Danio rerio
EC50 - for Crustacea
EC50 - for Algae / Aquatic Plants
Chronic NOEC for Fish
Chronic NOEC for Crustacea
Chronic NOEC for Algae / Aquatic Plants
$7,2 \mathrm{mg} / / / 48 \mathrm{~h}$ Daphnia magna
$27 \mathrm{mg} / / / 72 \mathrm{~h}$ Desmodesmus subspicatus
0,14 mg/l 28d Oncorhynchus mykiss
$0,18 \mathrm{mg} / \mathrm{l}$ 21d Daphnia magna
$0,93 \mathrm{mg} / \mathrm{I}$ Desmodesmus subspicatus

### 12.2. Persistence and degradability

2-BROMO-2-NITROPROPAN-1,3-DIOL
Solubility in water
286000 mg/l
Rapidly degradable
BENZENESULFONIC ACID, C10-13-ALKYL
DERIVS., SODIUM SALTS
Rapidly degradable

ALCOHOLS, C12-14, ETHOXYLATED,
SULFATES, SODIUM SALTS
Rapidly degradable

### 12.3. Bioaccumulative potential



## 2-BROMO-2-NITROPROPAN-1,3-DIOL

Partition coefficient: n-octanol/water 0,22

BCF

BENZENESULFONIC ACID, C10-13-ALKYL
DERIVS., SODIUM SALTS
BCF
12.4. Mobility in soil
ALCOHOLS, C12-14, ETHOXYLATED
SULFATES, SODIUM SALTS
Partition coefficient: soil/water 0,34

### 12.5. Results of PBT and vPvB assessment

On the basis of available data, the product does not contain any PBT or vPvB in percentage $\geq$ than $0,1 \%$.

### 12.6. Endocrine disrupting properties

Based on the available data, the product does not contain substances listed in the main European lists of potential or suspected endocrine disruptors with environmental effects under evaluation.

### 12.7. Other adverse effects

Information not available

## SECTION 13. Disposal considerations

### 13.1. Waste treatment methods

Reuse, when possible. Product residues should be considered special hazardous waste. The hazard level of waste containing this product should be evaluated according to applicable regulations.
Disposal must be performed through an authorised waste management firm, in compliance with national and local regulations.
CONTAMINATED PACKAGING
Contaminated packaging must be recovered or disposed of in compliance with national waste management regulations.

## SECTION 14. Transport information

The product is not dangerous under current provisions of the Code of International Carriage of Dangerous Goods by Road (ADR) and by Rail (RID), of the International Maritime Dangerous Goods Code (IMDG), and of the International Air Transport Association (IATA) regulations.
14.1. UN number or ID number

Not applicable
14.2. UN proper shipping name

Not applicable
14.3. Transport hazard class(es)


Not applicable

### 14.4. Packing group

Not applicable
14.5. Environmental hazards

Not applicable
14.6. Special precautions for user

Not applicable
14.7. Maritime transport in bulk according to IMO instruments

Information not relevant

## SECTION 15. Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

Seveso Category - Directive 2012/18/EC: None
Restrictions relating to the product or contained substances pursuant to Annex XVII to EC Regulation 1907/2006

Product

| Point | $3-40$ |
| :--- | :---: |
| Contained substance | 75 |

Regulation (EC) No. 2019/1148 - on the marketing and use of explosives precursors
Not applicable

Substances in Candidate List (Art. 59 REACH)
On the basis of available data, the product does not contain any SVHC in percentage $\geq$ than $0,1 \%$.

Substances subject to authorisation (Annex XIV REACH)
None

Substances subject to exportation reporting pursuant to (EC) Reg. 649/2012:
None

Substances subject to the Rotterdam Convention:
None

Substances subject to the Stockholm Convention:
None

Healthcare controls
Workers exposed to this chemical agent must not undergo health checks, provided that available risk-assessment data prove that the risks related to the workers' health and safety are modest and that the 98/24/EC directive is respected.

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Regulation (EC) No. 648/2004
Ingredients according to Regulation (EC) No. 648/2004

The surfactant(s) contained in this preparation complies(comply) with the biodegradability criteria as laid down in Regulation (EC) No. 648/2004 on detergents. Data to support this assertion are held at the disposal of the competent authorities of the Member States and will be made available to them, at their direct request or at the request of a detergent manufacturer.

### 15.2. Chemical safety assessment

A chemical safety assessment has not been performed for the preparation/for the substances indicated in section 3 .

## SECTION 16. Other information

Text of hazard $(\mathrm{H})$ indications mentioned in section 2-3 of the sheet:

| Acute Tox. 4 | Acute toxicity, category 4 |
| :--- | :--- |
| Eye Dam. 1 | Serious eye damage, category 1 |
| Eye Irrit. 2 | Eye irritation, category 2 |
| Skin Irrit. 2 | Skin irritation, category 2 |
| STOT SE 3 | Specific target organ toxicity - single exposure, category 3 |
| Aquatic Acute 1 | Hazardous to the aquatic environment, acute toxicity, category 1 |
| Aquatic Chronic 2 | Hazardous to the aquatic environment, chronic toxicity, category 2 |
| Aquatic Chronic 3 | Hazardous to the aquatic environment, chronic toxicity, category 3 |
| H302 | Harmful if swallowed. |
| H312 | Harmful in contact with skin. |
| H318 | Causes serious eye damage. |
| H319 | Causes serious eye irritation. |
| H315 | Causes skin irritation. |
| H335 | May cause respiratory irritation. |
| H400 | Very toxic to aquatic life. |
| H411 | Toxic to aquatic life with long lasting effects. |
| H412 | Harmful to aquatic life with long lasting effects. |

LEGEND:
ADR: European Agreement concerning the carriage of Dangerous goods by Road

- ATE: Acute Toxicity Estimate

CAS NUMBER: Chemical Abstract Service Number
CE50: Effective concentration (required to induce a $50 \%$ effect)

- CE NUMBER: Identifier in ESIS (European archive of existing substances)
- CLP: EC Regulation 1272/2008
- DNEL: Derived No Effect Level

EmS: Emergency Schedule

- GHS: Globally Harmonized System of classification and labeling of chemicals
- IATA DGR: International Air Transport Association Dangerous Goods Regulation
- IC50: Immobilization Concentration 50\%
- IMDG: International Maritime Code for dangerous goods

IMO: International Maritime Organization

- INDEX NUMBER: Identifier in Annex VI of CLP
- LC50: Lethal Concentration 50\%
- LD50: Lethal dose 50\%

OEL: Occupational Exposure Level
PBT: Persistent bioaccumulative and toxic as REACH Regulation
PEC: Predicted environmental Concentration

|  | MATERIAL SAFETY DATA SHEET <br> Conforms to Reg. (EU) 878/2020 | Issued on 07/05/2018 |
| :---: | :---: | :---: |
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PEL: Predicted exposure level
PNEC: Predicted no effect concentration
REACH: EC Regulation 1907/2006

- RID: Regulation concerning the international transport of dangerous goods by train

TLV: Threshold Limit Value
TLV CEILING: Concentration that should not be exceeded during any time of occupational exposure.
TWA: Time-weighted average exposure limit
TWA STEL: Short-term exposure limit

- VOC: Volatile organic Compounds
- vPvB: Very Persistent and very Bioaccumulative as for REACH Regulation

WGK: Water hazard classes (German).

GENERAL BIBLIOGRAPHY

1. Regulation (EC) 1907/2006 (REACH) of the European Parliament
2. Regulation (EC) 1272/2008 (CLP) of the European Parliament
3. Regulation (EU) 2020/878 (II Annex of REACH Regulation)
4. Regulation (EU) 790/2009 (I Atp. CLP) of the European Parliament
5. Regulation (EU) 286/2011 (II Atp. CLP) of the European Parliament
6. Regulation (EU) 618/2012 (III Atp. CLP) of the European Parliament
7. Regulation (EU) 487/2013 (IV Atp. CLP) of the European Parliament
8. Regulation (EU) 944/2013 (V Atp. CLP) of the European Parliament
9. Regulation (EU) 605/2014 (VI Atp. CLP) of the European Parliament
10. Regulation (EU) 2015/1221 (VII Atp. CLP) of the European Parliament
11. Regulation (EU) 2016/918 (VIII Atp. CLP) of the European Parliament
12. Regulation (EU) 2016/1179 (IX Atp. CLP)
13. Regulation (EU) 2017/776 (X Atp. CLP)
14. Regulation (EU) 2018/669 (XI Atp. CLP)
15. Regulation (EU) 2019/521 (XII Atp. CLP)
16. Delegated Regulation (UE) 2018/1480 (XIII Atp. CLP)
17. Regulation (EU) 2019/1148
18. Delegated Regulation (UE) 2020/217 (XIV Atp. CLP)

- The Merck Index. - 10th Edition
- Handling Chemical Safety
- INRS - Fiche Toxicologique (toxicological sheet)

Patty - Industrial Hygiene and Toxicology
N.I. Sax - Dangerous properties of Industrial Materials-7, 1989 Edition

- IFA GESTIS website

ECHA website
Database of SDS models for chemicals - Ministry of Health and ISS (Istituto Superiore di Sanità) - Italy

## Note for users:

The information contained in the present sheet are based on our own knowledge on the date of the last version. Users must verify the suitability and thoroughness of provided information according to each specific use of the product.
This document must not be regarded as a guarantee on any specific product property
The use of this product is not subject to our direct control; therefore, users must, under their own responsibility, comply with the current health and safety laws and regulations. The producer is relieved from any liability arising from improper uses.
Provide appointed staff with adequate training on how to use chemical products.
CALCULATION METHODS FOR CLASSIFICATION
Chemical and physical hazards: Product classification derives from criteria established by the CLP Regulation, Annex I, Part 2. The data for evaluation of chemical-physical properties are reported in section 9.
Health hazards: Product classification is based on calculation methods as per Annex I of CLP, Part 3, unless determined otherwise in Section 11. Environmental hazards: Product classification is based on calculation methods as per Annex I of CLP, Part 4, unless determined otherwise in Section 12.

Changes to previous review:
The following sections were modified:
01 / 02 / 03 / 08 / 09 / 11 / 12 / 15 / 16.

